

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known

Application Number	10/681,244
Filing Date	October 9, 2003
First Named Inventor	Howard A. Baumer
Art Unit	2117
Examiner Name	Gandhi, Dipakkumar B.

Sheet 1 of 2 Attorney Docket Number 1875.4430000

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/DG/	US1	4,627,070	12-02-1986	Champlin et al.	
	US2	4,833,605	05-23-1989	Terada et al.	
	US3	4,833,695	05-23-1989	Greub	
	US4	5,793,990	08-11-1998	Jirgal et al.	
	US5	5,933,021	08-03-1999	Mohd	
	US6	6,259,693	07-10-2001	Ganmukhi et al.	
	US7	6,137,734	12-24-2000	Schoner et al.	
	US8	6,317,804 B1	11-13-2001	Levy et al.	
	US9	6,483,849 B1	11-19-2002	Bray et al.	
	US10	7,032,139 B1	04-18-2006	Iryami et al.	
	US11	7,035,228 B2	04-25-2006	Baumer	
	US12	2001/0015664 A1	08-23-2001	Taniguchi	
	US13	2001/0021953 A1	09-13-2001	Nakashima	
	US14	2001/0017595 A1	08-30-2001	Cliff et al.	
	US15	2003/0120791 A1	06-26-2003	Weber et al.	
	US16	2003/0172332 A1	09-11-2003	Rearick et al.	
	US17	2004/0088443 A1	05-06-2004	Tran et al.	
↓	US18	2004/0141497 A1	07-22-2004	Amirichimeh et al.	
	US19	2004/0141531 A1	07-22-2004	Amirichimeh et al.	
/DG/	US20	2004/0117698 A1	06-17-2004	Tran et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	FP1					
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8					
	FP9					

Examiner Signature	/Dipakkumar Gandhi/ (01/02/2008)	Date Considered	
--------------------	----------------------------------	-----------------	--

DOC#741894_1.DOC

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/681,244
Sheet	2	of	2	Filing Date	October 9, 2003
				First Named Inventor	Howard A. Baumer
				Art Unit	2117
				Examiner Name	Gandhi, Dipakkumar B.
				Attorney Docket Number	1875.4430000

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
/DG/	US21	2005/0190690 A1	09-01-2005	Tran	
/DG/	US22	2006/0250985 A1	11-09-2006	Baumer	
	US23				
	US24				
	US25				
	US26				
	US27				
	US28				
	US29				
	US30				
	US31				
	US32				
	US33				
	US34				
	US35				
	US36				
	US37				
	US38				
	US39				
	US40				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		T ⁶
	FP10				
	FP11				
	FP12				
	FP13				
	FP14				
	FP15				
	FP16				
	FP17				
	FP18				

Examiner Signature	/Dipakkumar Gandhi/ (01/02/2008)	Date Considered	
--------------------	----------------------------------	-----------------	--

DOC#741894_1.DOC

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number Filing Date First Named Inventor Art Unit Examiner Name	10/681,244 October 9, 2003 Howard A. Baumer 2117 Gandhi, Dipakkumar B.
Sheet	1	of	3	Attorney Docket Number	1875.4430000

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
/DG/	NPL1	Copy of International Search Report Issued Dec. 14, 2004 for International Application No. PCT/US03/34234, 5 pages.			
	NPL2	Alaska Quad-Port Gigabit Ethernet Over Copper Transceivers, from http://www.marvell.com/products/transceivers/quadport/ ..., 1 page, printed May 8, 2007.			
	NPL3	Alaska X10 Gigabit Ethernet Alaska Gigabit Ethernet Fast Ethernet Physical Layer (PHY) Transceiver Families Provide a Full Range of Ethernet Transceiver Solutions for the Broadband Communications Industry, from http://www.nuhorizons.com/FeaturedProducts/Volume3/Marvell_phy_transceiver.asp , 4 pages, Copyright 2007, printed May 8, 2007.			
	NPL4	Cisco Search: Results for "cdl" within "News@Cisco", from http://www.cisco.com/pcgi-bin/search/search.pl , Copyright 1992-2003, printed July 29, 2003.			
	NPL5	Industry Breakthrough: Marvell Announces the First Quad-Port Transceiver to Support Both Copper and Fiber-Optic Gigabit Ethernet Interfaces, from Business Wire at www.encyclopedia.com/printable/aspx?id=1G1:68912211 , 4 pages, January 9, 2001, printed May 8, 2007.			
	NPL6	David Maliniak (ed.), Bel's integrated connector modules support Marvell's Alaska quad Gigabit Ethernet transceiver, from http://www.electronicsweb.com/Content/news/ ..., 1 page, December 14, 2000, printed May 8, 2007.			
	NPL7	Marvell Gets Small, from http://www.lightreading.com/document.asp?doc_id=12004&print=true , 1 page, February 19, 2002, printed May 8, 2007.			
	NPL8	Marvell Introduces the Industry's Smallest Quad-Port Gigabit Transceiver Device, Enabling Ultra High Port Density Enterprise Switching Systems, from http://www.marvell.com/press/pressNewsDisplay.do?releaseID=41 , 3 pages, February 19, 2002, printed May 8, 2007.			
↓	NPL9	Ed Turner, David Law, Sep. 17-19, 2001, "IEEE P802.3ae MDC/MDIO", http://www.ieee802.org/3/efrn/public/sep01/turner.sub.--1.sub.--0901.pdf (copy attached).			
/DG/	NPL10	Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, from http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html , 3 pages, Copyright 1992-2003, printed July 29, 2003.			

Examiner Signature	<i>/Dipakkumar Gandhi/ (01/02/2008)</i>	Date Considered	
--------------------	---	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DOC#741901_1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO		<i>Complete if Known</i>			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		<i>Application Number</i>	10/681,244		
		<i>Filing Date</i>	October 9, 2003		
		<i>First Named Inventor</i>	Howard A. Baumer		
		<i>Art Unit</i>	2117		
		<i>Examiner Name</i>	Gandhi, Dipakkumar B.		
Sheet	2	of	3	<i>Attorney Docket Number</i>	1875.4430000

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published		
/DG/	NPL11	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Two, pp. 9-55, Copyright 2002.		
	NPL12	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Four, pp. 9-152, Copyright 2005.		
	NPL13	Cisco Systems, Hiroshi Suzuki: Taking Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_profile.html		
	NPL14	Cisco Systems, Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html		
	NPL15	Cisco Systems, Innovators Profiles, http://newsroom.cisco.com/dlls/innovators/inn_profiles.html		
	NPL16	Cisco Systems, Optical, http://newsroom.cisco.com/dlls/innovatros/optical/		
	NPL17	Cisco Systems, Cisco Systems ad Aretae Interactive Launch Internet Powered Property (IP2), http://newroom.cisco.com/dlls/global/asiapac/news/2000/pr_07-25.html .		
	NPL18	"Broadcom Announces the First 0.13-micron CMOS Multi-Rate Gigabit Octal Serializers/Deserializers" [online], Broadcom Press Release, October 29, 2002 [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/cgi-bin/pr/prps.cgi?pr_id=PR021029 > (5 pages).		
	NPL19	BCM8040 8-Channel Multi-rate 1.0-3.2-GBPS Retimer Switch [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8040.html > (2 pages).		
/DG/	NPL20	8-Channel Multi-Rate CMOS Retimer with Full Redundancy [online], BCM8040 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet:<URL: http://www.broadcom.com/products/8040.html > (2 pages).		

Examiner Signature	/Dipakkumar Gandhi/ (01/02/2008)	Date Considered	
--------------------	----------------------------------	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DOC#741901_1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Equivalent of Form PTO/SB/08B (10-07)
Approved for use through 10/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/681,244
				Filing Date	October 9, 2003
				First Named Inventor	Howard A. Baumer
				Art Unit	2117
				Examiner Name	Gandhi, Dipakkumar B.
Sheet	3	of	3	Attorney Docket Number	1875.4430000

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published			T ²
/DG/	NPL21	BCM8020 8-Channel Multi-rate 1.0-3.2-GBPS Transceiver [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8020.html> (2 pages).			
	NPL22	8-Channel Multi-Rate CMOS Transceiver with Full Redundancy [online], BCM8020 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8020.html> (2 pages).			
	NPL23	BCM8021 4-Channel Multi-rate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8021.html> (2 pages).			
	NPL24	4-Channel Multirate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], BCM8021 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8021.html> (2 pages).			
/DG/	NPL25	Broadcom Announces the Industry's First 0.13-micron CMOS Advanced Transceiver Solution with Signal Conditioning for Low-Cost 10-Gigabit Over Copper Links [online], Broadcom Press Release, April 29, 2003 [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/cgi-bin/pr/prps.cgi?pr_id=PR030429A> (4 pages).			
	NPL26				
	NPL27				
	NPL28				
	NPL29				
	NPL30				

Examiner Signature	/Dipakkumar Gandhi/ (01/02/2008)	Date Considered	
--------------------	----------------------------------	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DOC#741901_1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.